

ABSTRACT OF THE DISCLOSURE

There are provided a rotor having plural magnetic poles disposed in a circumferential shape, and a stator including a stator core having plural magnetic pole teeth that are outside a circumference of the rotor and face the rotor, a coil being wound around each of the magnetic pole teeth, wherein the stator is provided in a range within 180 degrees with respect to a center of the rotor, the magnetic pole teeth are set so that the value of at least one of angles each formed by extensions of adjacent magnetic pole teeth is smaller than an angle formed by lines each connecting a tip center of one of adjacent magnetic pole teeth and a rotation center of the rotor.